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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/539,797	12/19/2005	Erling Sundrehagen	COCK3001-REF	4942
23364 BACON & THO	7590 03/14/200 OMAS, PLLC	EXAMINER		
625 SLATERS LANE			FOSTER, CHRISTINE E	
FOURTH FLOOR ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER
			1641	
			MAIL DATE	DELIVERY MODE
			03/14/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/539,797	SUNDREHAGEN, ERLING		
Office Action Summary	Examiner	Art Unit		
	Christine Foster	1641		
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the c	correspondence address		
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING Description of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tir I will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on <u>06 F</u> This action is <b>FINAL</b> . 2b) ☑ This action is application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matters, pro			
Disposition of Claims				
4)  Claim(s) <u>1-27</u> is/are pending in the application 4a) Of the above claim(s) is/are withdra 5)  Claim(s) is/are allowed. 6)  Claim(s) is/are rejected. 7)  Claim(s) is/are objected to. 8)  Claim(s) <u>1-27</u> are subject to restriction and/or	awn from consideration.			
Application Papers				
9) The specification is objected to by the Examin  10) The drawing(s) filed on is/are: a) ac  Applicant may not request that any objection to the  Replacement drawing sheet(s) including the correct  11) The oath or declaration is objected to by the E	cepted or b) objected to by the defendance of a drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>				
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D: 5) Notice of Informal F 6) Other:	ate		

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## **DETAILED ACTION**

## Election/Restrictions

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-9, drawn to an assay method for the detection of potential or propensity for CVD.

Group II, claim(s) 10-13, drawn to an assay kit.

Group III, claim(s) 14-19 and 26-27, drawn to an assay method for the determination of calprotectin and for a method of diagnosis of disease.

Group IV, claim(s) 20-24, drawn to a kit for use as a diagnostic assay.

Group V, claim(s) 25, drawn to an automated apparatus.

2. The inventions listed as Groups I-V above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The claims of Groups I and II are drawn to a method and kit, respectively, for the detection of potential for CVD by assessing calprotectin. Groups III and IV relates to a turbidimetric assay and kit, respectively, for calprotectin using a nanoparticle-bound calprotectin antibody. Group V relates to an automated apparatus for calprotectin detection using an anticalprotectin antibody. The technical feature linking these inventions appears to be that of assessment or measurement of calprotectin.

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According to PCT Rule 13.2, unity of invention exists only when the shared same or corresponding technical feature is a contribution over the prior art.

Fagerhol et al. (US 5,455,160, Applicant's ID of 9/20/06) teach quantifying calprotectin or L1 protein in feces by immunoassay (the abstract). This measurement can be applied in diagnosis of disease (as in instant claims 26-27), for example in diagnosis of inflammatory bowel disease (IBD) or cancer (column 1, lines 5-15; column 11, lines 27-53).

In addition, Sorg et al. (US 2003/0175713 A1) teach diagnosis of various inflammatory diseases including vasculitis (which would be considered a cardiovascular disease) by measuring calgranulin C as a marker See the abstract and [0030]-[0031]. The measurement of calgranulin C can also be applied to determine risk of relapse (see, e.g., claim 20). Calgranulin is disclosed in the instant specification as a synonym for calprotectin (see page 3, lines 8-11).

Therefore, the technical feature linking the inventions of Groups I-V does not constitute a special technical feature as defined by PCT Rule 13.2, as it does not define a contribution over the prior art. In addition, the Groups each have technical features that are unrelated to the other groups. Group I relates to a method for the detection of potential for or propensity to CVD, which is not a limitation of the method of Group III. Group III relates to a method for diagnosis of various diseases, which is not a limitation of the method of Group I. Group V relates to an automated apparatus, which is not a limitation of the other Groups.

Accordingly, Groups I-V are not linked by the same or a corresponding special technical feature so as to form a single general inventive concept.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

## Notice of Possible Rejoinder

3. The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder. <u>All</u> claims directed to a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowable product claim

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will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. **Failure to do so may result in a loss of the right to rejoinder**. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christine Foster whose telephone number is (571) 272-8786. The examiner can normally be reached on M-F 8:30-5. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Long Le can be reached at (571) 272-0823. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Christine Foster/ Examiner, Art Unit 1641

/Long V Le/ Supervisory Patent Examiner, Art Unit 1641